

Gradwohl

1983

BCI

7530-00-222-3821

FEDERAL SUPPLY SERVICE

(BFO)



Gradwohl  
Dept. Zoological Research  
National Zoological Park  
Washington D.C. 20008  
(202) 673-4747



3 Aug 1983

New gaps on Plateau

- ① 20 & 40 m gap - defoliated next to tower house (slightly larger than old maintained gap) Definitely cuts into SA yellow territory

② WMW 12.2 (L)

③ WMW 13.7 (L)

Leaf Collections

FD 0.2 50 leaves in baggies

AVA 0.8 50 leaves



3 Aug

Flock at WNW 12.5 (L) poor visibility

DWA  
greentet } hd  
WFA ♀

FD 0.3 (R)

CTA ♂ couldn't see legs

SA ♂ ? + y (R)

SA ♀ aluminum (R)

} marked pair

AVA 0.9

CTA ♂

CTA ♀ O/BL-W ??

SA ♂ y/AB (R)

WFA ♀ um

WFA ♂ ?m

SA ♀ um

} allopreening ♀ green ♂

Border display CTA ♂ um + CTA ♂ P-y/~~LB~~

CTA P-y/LB ♂

↑ CTA ♀ P-y/LB ?? R/LB ?? O/AB ??

3 Aug

I followed CTA  $\vec{e}$  P. 4/18 ~ 2 hrs

AVA 0.7 (R) 2m  $\rightarrow$  AVA 0.8 (R) 10m  
AVA 0.7 (R) 10m  $\rightarrow$  AVA 0.6 (R) 10m  $\rightarrow$   
AVA 0.6



5 Aug

WFA ♂ um

WFA ♀ um

maybe a baby WFA hd

AVA 0.3

30m (L)

AVA 0.7

♂ SA um following ♂ closely

SA ♂ G-W/G-W (R)

SA ♀ um

AVA 3.9

collecting rhizomes for nest

SA ♀ um

CBA ♀ um

(H) 32-15

CTA ♂ R-B/R-B (R)

CTA ♀ R/B (R)

AVA-WMW shortcut

1/2 way ~~to~~ ~~the~~

10m toward AVA

DWA ♂ um

Trogon w/9 katydid scm

WMW 14.1 10m (R)

DWA ♂ um

SA ♂ 4 (R)

SA ♀ um

Alum (L)

WMW 12.3-4

SA nest building

5 Aug

DWA ♂ um

DWA ♀ um

SA ♂ um

SA ♀ W/Bl (L)

PX um

} nest building  
directly across  
from WMW 14  
sign

PX fighting legs not seen

WMW  
14

Mike? ~~that~~ described an anturean  
nest on Gigante with two eggs. It  
sounded like a CIA nest (hanging under  
vine tangle 5' off ground & white eggs  
with brown speckles)

### Dead Leaf Collections

50 leaves AVA 4.5

50 leaves WMW 12.3



6 Aug

Antarctic Group Comp

TB 2 DWA ♂

TB 5.6

WFA ♂, ♀ juv ♀ being fed she  
sat on a branch and was  
fed by ♀. I didn't hear  
her make any noise

CTA ♀ (♂?? hd calling  
~40 m off)

2 Flatbills

DL

WFA ♂ - caught & ate 2cm latydid

WFA ♀

CTA ♂

CTA ♀

7 Aug

Plateau:

DWA ♂  
LG (2)  
WBW hd

AVA 1.7

60m Ⓡ I was chased  
away by Gibbs monkeys

WFA ♂ E/4 Ⓡ  
WFA ♀ um (?)  
S. Bentbill um

I stayed with them  
for 1 hr and  
they circled around  
between 10m and 100m

SA ♂  
SA ♀

Still nest building

(DWA)

12.5

L 100

SPA ♀ R/W-G Ⓡ

nest with two babies  
in fact no 10

HA 15

Ⓡ

was from  
pink f. back  
striped flagging



7 Aug

WFA ♂ um

WFA ♀ um

SA ♂ 9/10/83 (R)

WFA ♂ um

JZ 0.5 SA ♂ um

JZ 1.8 SA ♂ um

SA ♀ um

JZ 2.1

CTA ♀ um

CTA ♂ um border disp  
with CTA ♂ um

SPA ♂ um

AVA

3.4

Black striped Woodcreeper um

DO on Big Quintera WBW 8-4/8-4  
(R)

AG (Comptona)

WMW 18.4 DWA ♂

FD - umw integ WFA ♂ 7

7 Aug

I walked by and flushed  
a ♀ WFA from the nest  
at #472 15(L). The nest  
is ~15m from ground and  
is constructed of sticks and  
moss. It looks like a  
spotted bird's nest with some  
moss over it. It looks  
also vulnerable to predation.

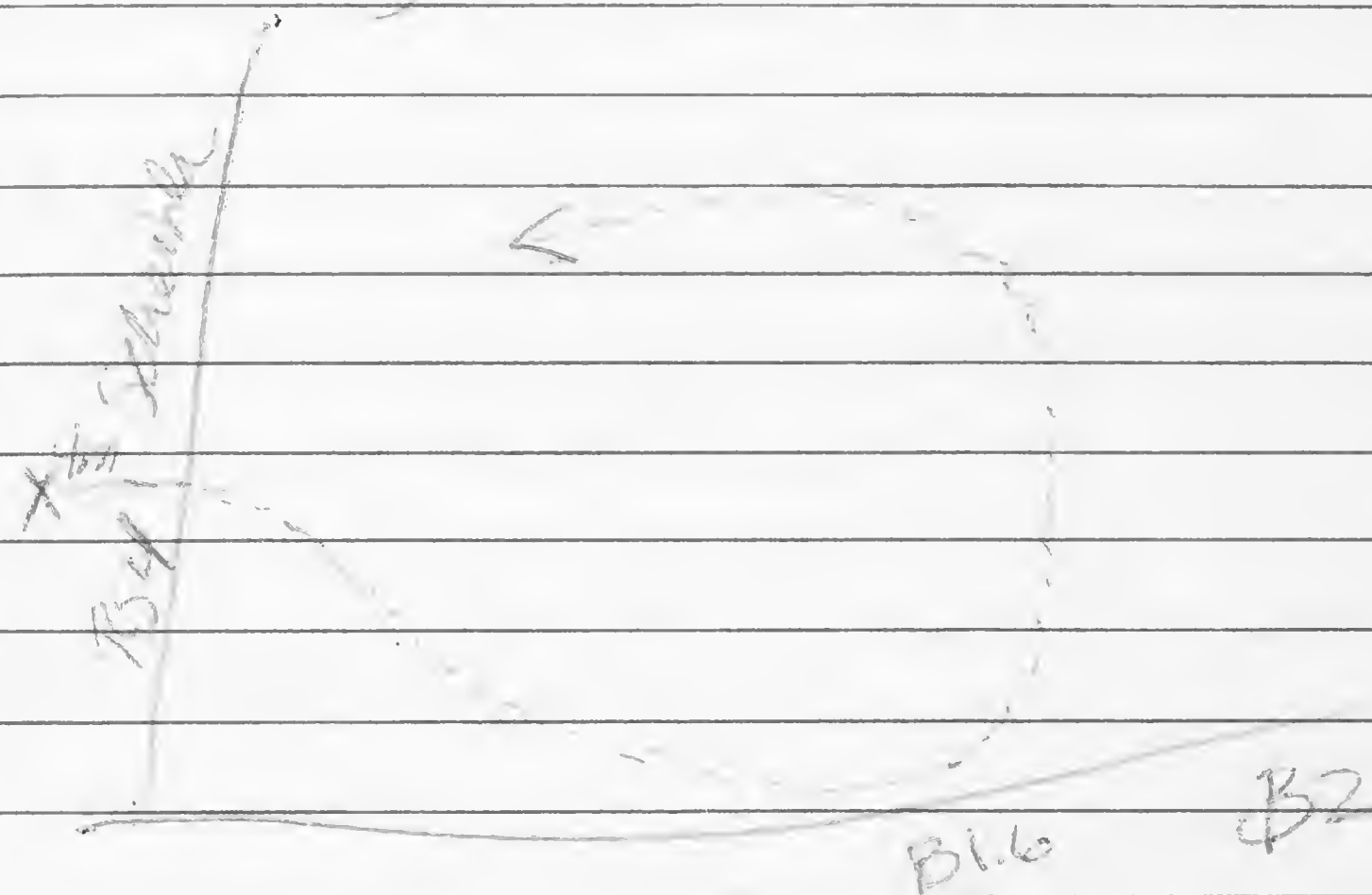


8 Aug

I followed a CTA family  
♂ W/BL (R) ♀um begging baby ♂  
The baby had very light irides  
and checkers on its throat. It  
was gape-breathing (!) when I  
first came upon it at Schmorla 4.  
The baby begged non-stop and  
seemed to stay within 3m of its  
parents at all times. Twice he  
got too close (?) to the adult ♂  
who lunged at him and keeked.  
The ♂ got a 4cm blue nose katydid  
out of a dead palm frond, dissected  
and ate everything except for the abdomen,  
which he fed to the baby ♂. The  
baby watched the entire process from  
~ 0.5m and then went up and  
begged. He spent a lot of time  
picking and idling, playing idly,  
but not a lot of foraging. I saw  
the baby ♂ peck at a dead leaf  
but it didn't look serious. He  
also pecked down a few dead leaves  
but I never saw him capture  
any prey. Both the ♂ and ♀ did  
look and he got prey items every  
5-10 min.

8 Aug

Q. stayed with them for 1 hr  
until they went into impenetrable  
and they (palm scrub) off shore.



10:00 CTA ♂ R-G/R-G  
NA CTA ♀ R/B  
2.2 DWA ♀ um  
5m(L) RTE um  
LG um  
SA ♂ um  
SA ♀ um

talking a lot - it sounded  
like a border display  
although I ~~did~~ didn't  
see the other birds



8 Aug

10:30 AVA 2.3 5 m (L)

11:00 AVA 2.3 over trail

The ♀ Slaty Antthrush had eaten 3 grubs each at least 3.5 cm in length. Handling time was 5-15 sec

11:00 I saw DWA ♂ um for the first time

11:25 SA ♂ um eating 4 or 5 green grubs

11:30 SA ♂ chased DWA ♀ she didn't have anything in her bill after the chase and I couldn't see any prey during the chase

Flork still at AVA 2.3 directly over trail

11:50 RTF sunning itself & grooming

12:00 AVA 2.3 over trail

8 Aug

SA ♂ 4/10B WNW 13.5

12:05 DATA ♀ um

DATA ♂ um

WNW

CTA ♂ P-4/LB (2)

13.2

S. Bentbill um

(P)

CB Antbird um Redwing baby?

12:10

WNW

13.3

5m (P)

12:30 13.2 WNW

WFA ♀ um first seen

12:35

WNW

13.2 7m (P)

~~13.2~~ CTA ♂ P-4/LB

WFA ♀ um

DATA ♀

CB Antbird

12:45 WNW 13.4

WFA was beating a 15-2 com  
lizard spider then she flew  
rapidly in the direction of her  
nest

DATA ♂ is back



8 Aug

♀, ♂ White shouldered Tanager

2-3 Blue Dacnis RLH groups  
going to rolled green leaves  
and gyrating them open

1:05 flock at WNW 13

2:05 flock at AVA 1.4 20m (C)

SA ♀ album (L) sing band on (R) ?  
(L) 40-23  
SA ♂ um

2:45 CTA ♂ R-G/BA (C)

SA ♀ R/UB (C)

SA ♂  
AVA  
RTF um

2:30  
over trail

CTA ♂ nuptial feeding ♀

9 Aug

# Dead Leaf Peak

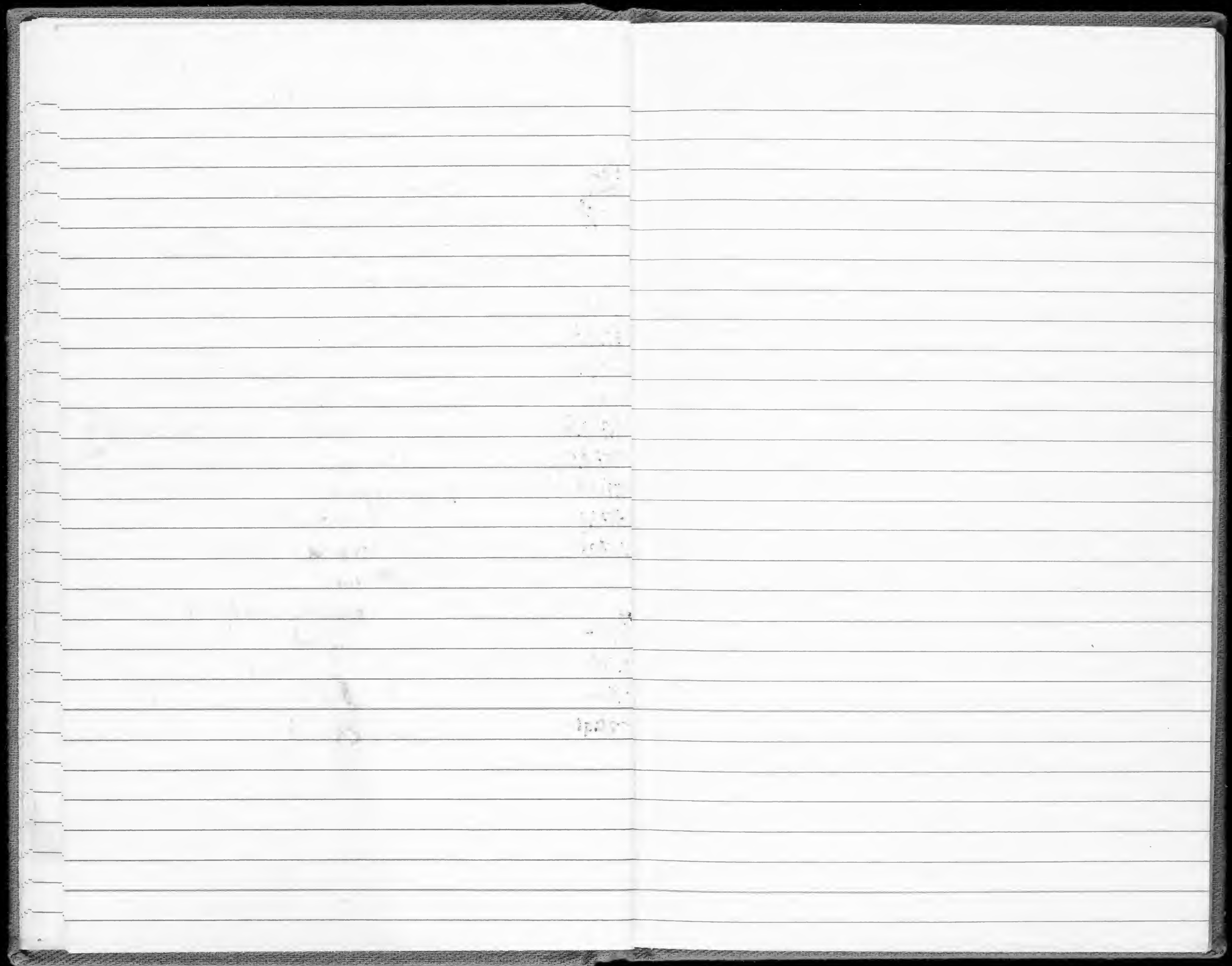
SM (L) JAG 1	10 mm cricket	10 <sup>(14)</sup> , 10 <sup>(14)</sup> mm roach
SM 1.1 (L) 2	5, 10 mm cricket	
1.3 (L) 3	10 mm cricket	
SM 1.6 (L) 4	10 mm thin leg spider	under leaf
SM 1.8 (L) 5	15+ mm Lycosid	
X 6	10 mm cricket	
SM 2 7	8-9 mm roach (no wings)	
SM 2.7 8	10 mm funnel web spider	green + black w/ orange legs
SM 3.7 9	funnel web spider	6-8 mm
3.9 10	15+ mm Lycosid	
SM 4 11	10-12 mm cricket	
SM 4.7 12	10+ mm roach (no wings)	
SM 4.9 R 13	8 mm cricket	
SM 5.1 14	10(14) 10(14) roach	15 mm cricket
SM 5.1 R 15	8 mm funnel web spider	
WMM 5.1 16	10(14) mm roach	
SM 5.1 17	15x5 mm cricket	
WMM 5.1 18	10(14) mm roach	
19	20+ mm cricket	
SM 6 20	8 mm long legged spider	
6.2 21	30 mm Christmas Katydid	
22	spider (orb weaver)	
JCS 0.1 23	15 mm Lycosid	
0.2 24	15+ mm Lycosid	



9 Aug

# Dead Leaf Peek

JAG	
<sup>12m</sup> on L 25	10(14), 10(14) mm roach
0.8 26	8mm white cricket
27	2-3 cm shiny green <sup>yellow</sup> cricket
28	8mm roach
BO.5 29	8mm cricket
BO.5 L 30	8, 8 mm cricket
BO.2 31	4cm green eyed Katydid
AVA 0.4 32	Lycosid (big)
AVA 0.8 33	11mm thin long legged spider w/ <sup>case</sup> egg
AVA 0.8 34	2cm furry cricket 6mm roach
AVA 1.4 35	2cm lycosid
AVA 1.9 36	10(14) mm Roach
AVA 2.5 37	10mm orange roach
38	10(14) mm roach
39	3.5 cm Christmas Katydid
<sup>32</sup> 0.5 R 40	8-9 mm cricket
0.7 R 41	2cm furry cricket
0.8 L 42	10(14) mm roach 7mm cricket
520.96 43	7-8 mm cricket





9 Aug

CTA ♂ w/Bl@ + family  
TCS 2.8

poke hd at AVA 2  
PWA  
CTA

# 10 Aug Dead Leaf Peek

- JAG 1 10 mm cricket 10/14) 11mm roach
- 2 5, 10 mm cricket
- 3
- 4 1 15mm lycosid w/ egg mass
- 5 10mm spider (longleg) caty 8mm moth? + 2.5cm <sup>furry</sup> cricket
- 6 leaf down
- 7 9mm roach
- 8 green black orange funnel web 10mm
- 9 funnel web spider 6-8mm dropped to ground
- 10
- 11 10-12 mm cricket
- 12 10+ mm roach no wings
- 13
- 14 8, 10/14) mm roach 10mm <sup>black</sup> beetle 5mm spider
- 15 8mm funnel web spider
- 16 6mm roach
- 17 4mm roach
- 18
- 19
- 20
- 21
- 22 spider (orb weaver)
- 23
- 24 15+ mm lycosid
- 25
- 26 8mm white cricket
- 27



10 Aug Dead Leaf Peck

JAG 28

29 5mm roach

30 8mm cricket 9mm roach nymph 12mm spider

31 4cm green eyed Katydid

32 10+ mm roach nymph (molting?)

33 11mm spider w/egg case

34 2cm fuzzy cricket

35 lycosid w/egg mass

36 10(14)mm roach

37 10mm roach

38 10(14)mm roach

39 3.5 cm Christmas Katydid

40 14(17)mm roach

41 8mm roach

42 —

43 7-8mm cricket

10 Aug Plateau

CTA ♂ R-G/R-G (P)

AVA WFA ♀ um (different from one on nest  
at AVA 0.5)

2.1 SA ♂ um

RTF um

DNA ♀ um

WMM  
17.2

SA ♀ W/Be (P)

SA ♂ um

(big katydid  
both had prey items in bills)

~~CTA ♂ AB~~



10 Aug  
Dead Leaf Peck

1	++-	27	
2	++	28	
3		29	-
4	+	30	+ -
5	+	31	+
6	<del>WATER</del>	32	-
7	+	33	+
8	+	34	+
9	+	35	+
10	-	36	+
11	+	37	+
12	+	38	+
13	-	39	+
14	+ - -	40	-
15	+	41	-
16	+ -	42	-
17	-	43	+
18	-		
19	-		
20	-		
21			
22	+		
23	-		
24	+		
25	-		
26	+		

~~27 and 28~~

10 Aug

Flock following

CTA ♂ dB/W-BL (L)

11:45 DWA ♂ um

11:45 DWA ♀ um

11:45 3A ♀ Y/R (L) LB/R-Y (L)

12:05 CTA ♀ appeared P-Y/P-Y  
is sign of ♂

R10m

SB um

DWA ♂ & ♀

♀ is pecking at bark  
of dead wood

12:20 10 more meters away from trail

12:30 + 5 more meters away from trail

12:35 + 10 meters in + 5m diagonal (L)

LB/P-Y (R) SPA ♀

12:40 + 10 meters in same diagonal (L)

12:45 back toward trail 5m

12:50 away from trail 20 m

1:00 5 m (L)



Hock Following 10 Aug

♀ CTA P-y/P-y ate 3.5 cm bright  
yellow & yellow-orange katydid  
She took about 5 min killing  
and dissecting off the legs  
then flew off (maybe to  
take it to young in a nest?)

1:30

~~Wm 14~~

10 Aug

CTA ♀ R/B(P) AVA 2.2

SA ♂ 4/db(P) WNW 13.3  
2:15 CTA ♀ dB/O(P)  
DWA ♀ um  
SA ♀ um

2:25  
WNW  
13.5-6 10m(P)

SA ♀ um ate  
a 0.5 x 5 cm green  
gull ripped off of  
a grass leaf

2:35 5m(P) + 5m away from WNW  
2:40 + 5m more away from WNW [WNW 13.7  
40m(P)]

2:45 Thunder, threatening to rain &  
I can't find CTA

3:15 CTA ♂ dB/Bl-W



# 11 Aug Dead Leaf Peck.

- |       |  |    |                     |
|-------|--|----|---------------------|
| JAG 1 | —  | 26 | cricket + (molted?) |
| 2     | 5, 10 mm cricket + +                     | 27 |                     |
| 3     |  | 28 | 8mm roach           |
| 4     | long legged spider +                     | 29 | 3mm roach           |
| 5     | lycosid +                                | 30 | 9mm roach 8mm arach |
| 6     |  | 31 | Catydid +           |
| 7     | 9mm roach +                              | 32 | roach +             |
| 8     | funnel web spider + 9mm roach            | 33 | spider +            |
| 9     |  | 34 | furry cricket +     |
| 10    | nothing                                  | 35 | lycosid +           |
| 11    | 12mm cricket +                           | 36 | 8mm spider          |
| 12    | 10mm roach dropped to ground 8mm cricket | 37 | 10mm roach flew     |
| 13    | nothing                                  | 38 | 9mm roach           |
| 14    | funnel web spider +                      | 39 | nothing             |
| 15    | 8mm roach 5mm spider                     | 40 | 8mm black beetle    |
| 16    |  | 41 | 8, 10 (14) mm roach |
| 17    | leaf down                                | 42 | 10 (14) mm roach    |
| 18    | nothing                                  | 43 | 7-8mm cricket       |
| 19    | nothing                                  | 44 |                     |
| 20    | nothing                                  |    |                     |
| 21    |  |    |                     |
| 22    | leaf down                                |    |                     |
| 23    | nothing                                  |    |                     |
| 24    | lycosid                                  |    |                     |
| 25    | nothing                                  |    |                     |

11 Aug Plateau

WFA ♂ 0/4 (R)  
WFA ♀ um

} nest building

(H)

405-22

40-22

39-22

WBW 0/2 G (R)

chasing w/ WBW um

2 Bicolored Antbirds

(H)

42-20

SA 0/4 (R) ♂ nest building



11 Aug Snyder Moline - Plateau  
Dead Leaf censuses

1	—	26	+
2	++	27	
3		28	+
4	+	29	—
5	+	30	++
6		31	+
7	+	32	+
8	+	33	+
<del>9</del>		34	+
10	0	35	+
11	+	36	+
12	+	37	—
13	0	38	—
14	++--	39	—
15	+ <del>many</del>	40	—
16		41	+—
<del>17</del>		42	0
18	0	43	+
19	0		
20	0		
21			
<del>22</del>			
23	0		
24	+		
25	0		

# Dead Leaf Peak

SAG#

- 44 where lutz meets shortcut (L) 12mm cricket  
 45 4m past Lutz (L) 8mm cricket  
 46 FEL 4 over sign (R) 25mm katydid nymph?  
 47 4m past FEL 4 (L) 7, 9mm roach  
 48 FEL 4.75 (L) 1x3 cm black roach  
 49 FEL 4.8 (L) 6-8mm pink spider

- 50 WNW 12.4 (L) 15mm wingless roach 25mm <sup>thick</sup> katydid  
 51 WNW 12.4 (R) 8mm cricket  
 52 WNW 12.6 (L) 10mm roach nymph  
 53 WNW 12.8 (R) 15mm spider  
 54 WNW 12.95 (L) lycosid  
 55 WNW 13.02 (L) 3, 9mm roach  
 56 WNW 13.2 (R) 7mm cricket  
 57 WNW 13.25 (L) green spider 10-12cm  
 58 WNW 13.6 (R) 3.5cm katydid  
 59 WNW 13.8 (R) 10mm roach nymph  
 60 WNW 14.05 (L) lycosid w/eggs  
 61 WNW 14.3 (L) lycosid



#  
~~SM~~ 1.1 ④ 2  
SM 1.6 ④ 4

12 Aug

TB 1.5 Big ant swarm (large brown ants)  
Brocket deer

TB 2.1 (P) Spotted antbird nest  
with three eggs

WMM SPA ♂ R/R (P)  
13.3



12 Aug

JAG#

1 10mm roach

2 10mm cricket 3.5 mm roach

3 ○

4 long legged spider

5 lycosid

~~6~~

7 —

8 —

(new leaf w/ 12mm+ lycosid marked 8)

~~11~~ 15(20)mm roach

10 ○

11 12mm cricket

12

13 ○

14 8mm roach

15 3.5, 3 mm roach

16

~~17~~

18 ○

19 ○

20 ○

21 — leaf is moved

~~22~~

23 ○

24 lycosid

25 10(13)mm roach

12 Aug

26 Sun cricket

27

28

29 9mm pink spider

30 5,8mm cricket

31 green eyed Katydid

32 —

33 spider +

34 sun cricket +

35 lycosid +

36

37 0

38 5,9 mm roach 3mm spider

39

40 Beetle +

41 6,8mm roach

42

43 7.8 mm cricket +



# 12 Aug Dead Leaf Peak

1	0	26	+
2	+ -	27	
3	0	28	
4	+	29	-
5	+	30	+ -
6		31	+
7	-	32	-
8	- -	33	+
9	0	34	+
10	0	35	+
11	+	36	-
12		37	0
13	0	38	+
14	+ -	<del>39</del>	
15	-	40	+
16		41	+ -
<del>17</del>		42	
18	0	43	+
19	0		
20	0		
21	-		
<del>22</del>			
23	0		
24	+		
25	0		

# 12 Aug Dead Leaf Night Census

SM 1.0 (L) 1 —

SM 1.1 (L) 2 on leaf outside

SM 1.6 (L) 4 on web under green leaf next door

SM 1.8 (L) 5 in leaf

Wtz + Sc. (L) 44 ~~44~~

+4m (L) 45 ~~45~~

FEL 4 (L) 46 ~~46~~

4.04 (L) 47 ~~47~~

4.25 48

FEL 4.8 49

SM 2.7 8 on outside of leaf

SM 3.9 9 —

SM 4 11 —

SM 5.1 R 14 —

SM 5.1 (L) 15 —

TCS 0.3<sup>a</sup> 24 on green leaf next door

+2m (L) 25 —

0.7 26 —

BO.5 (L) 29 —

BO.2 30 —

AVA 0.4 31

AVA 0.6 33

AVA 0.8 34

AVA 1.4 35

WmW SL 38 9mm rock

JZO.5K 40 —



# Dead Leaf Night Census

J2 0.3 (P) 41 -

J2 0.4 (P) 43 -

W12.4 (L) 50 roach eating same place no katydid

W12.4 (P) 51 cricket in leaf

W12.6 (L) 52 velvet ant?

W12.8 (P) 53 on outside of leaf lycosid

W12.95 (L) 54 -

W13.01 (L) 55 -

W13.2 (P) 56 4mm spider

W13.25 (L) 57 on outside of leaf

W13.6 (P) 58 -

W13.8 (P) 59 roach in leaf

W14.05 (L) 60 in leaf lycosid w/eggs

W14.3 (L) 61 lycosid inside

# 13 Aug. Dead Leaves

SM1.0 ② 1 -

SM1.1 ② 2 cricket +

SM1.6 ② 4 spider +

1.8 L 5 lycosid +

lut 3 44 4mm cricket -

+4 mL 45 spider -

FEL 4 R 46 katydid +

4.04 L 47 7mm roach + - pink spider 8m

4.75 48 -

4.8 49 9mm roach dropped out

SM2.7 8 -

SM3.7 9 roach +

4 11 12mm cricket +

5.1 R 14 5mm spider -

5.1 L 15 -

TCS 0.3 R 29 lycosid +

+2 mL 25 -

0.7 26 cricket 8m +

PO.5 29 -

AVA 0.4 30 8mm cricket + -

0.6 31 katydid +

0.8 33 spider +

1.4 34 7mm cricket +

WMM 5L 35 lycosid +

J 36 59mm roach spider + +

40 weevil +



# 13 Aug Dead Leaves (cont.)

20.3 <sup>R</sup> 41	6mm roach + -
0.9 <sup>R</sup> 43	cricket +
W12.4 <sup>L</sup> 50	Katydid + roach +
12.4 <sup>R</sup> 51	cricket +
12.6 <sup>L</sup> 52	roach nymph + dropped out
12.8 <sup>R</sup> 53	grass spider +
12.95 <sup>L</sup> 54	lycosid + dropped out
13.01 55	-
13.2 56	-
13.25 57	spider +
13.6 58	Katydid +
13.8 59	roach nymph +
14.05 60	lycosid w/eggs +
14.3 61	lycosid +

-- = not in leaf Summary

X = present but not inside

+ = inside

Dead Leaf Census

Aug 12 night Aug 13 day

	Night	day
1	-	-
2	X	+
4	X	+
5	+	+
44	<del>+</del>	-
45		-
46		+
47		+-
48		-
49		-
8	X	-
9	-	+
11	-	+
14	-	-
15	-	-
24	X	+
25	-	-
26	-	+
29	-	-
30	-	+-
31		+
33		+
34		+
35		+
38		++
40		+

	Night	day
41	-	+-
43	-	+
50	+-	++
51	+	+
52	-	+
53	X	+
54	-	+
55	-	-
56	-	-
57	X	+
58	-	+
59	+	+
60	+	+
61	+	+



13 Aug

WFA ♂ 0/4 R } nest building  
WFA ♀ um } tree # 94287 81-82  
33.5-21.5 WFA ♂ um 12/28 R  
10/21-21 CTA ♀ 4/1 B R  
3A ♀ um

### Dead Leaf Collections

50 leaves individually JZ 0.5

50 leaves individually WMW 15.2

# 14 Aug Dead Leaves

1 -

2 cricket +

4 katydid -

5 lycosa +

44

45

46

47

48

49

8 0

9 -

11 cicada +

14 spider +

16 0

24 -

25 0

26 cricket +

29 -

30 spider

31 katydid +

33 spider +

34 jumping cricket +

35 lycosa +

38 5' on rock ++ -

39 christmas katydid

40 beetle



# 14 Aug dead leaves

- 41 8mm roach +  
43 leaf done new 43 8-10mm cutlet  
50 roach + katydid +  
51 cricket +  
52 0  
53 spider +  
54 0  
55 0  
56 spider + 0  
57 spider +  
58 14, 15+ mm roach nymphs —  
59 roach +  
60 lycosid +  
61 lycosid +

14 Aug

WNV

~~7.7~~ SPA ♀ P-4 / P-4

SPA ♂ UM

B.2 WFA ♂ UM

RTF UM

2 CBA UM

FD0.2 O/LG WBW

FD0.3 Sloth in Quetzal



# 14 Aug New Dead Leaves

62 9mm pink spider

63 8, 10 mm roach nymph 12-15 mm spider

64 5mm spider 6-7 mm roach

65 2.5 cm katydid 15(20) mm roach

66 christmas katydid

67 8mm roach

68 8mm roach

68 7mm katydid nymph

# 14 Aug Night check

SM 1.6 4 >

1.8 L 5 +

SM 4 11 2 crickets on nearest green leaf 4m  
S.R 14 roach in leaf

TSO.7 26 -

~~TSO.2~~ 30 -

UAO.4 31 -

0.4 33 spider inside

0.8 34 -

1.4 35 -

WAWSC 38 -

Z 0.5 39 -

TSO.5 40 beetle +

0.3 41 5mm roach

0.9 43 -

W12.4 50 roach + no katydid

12.4 K 51 -

12.8 K 53 outside of leaf spider

13.2 L 57 spider outside of leaf bottom

13.6 K 58 - katydid nymph on green leaf 1m

13.8 K 59 roach inside

14.05 60 spider inside leaf

14.3 61 spider inside leaf

14. 62 -

SE 63 9, 10 mm roaches, spider 4m roach

64 cricket spider

65 -



66 —

NAZ 67 8mm reach on outside

68 — 8mm reach on branch 10cm

# Aug 15 Dead Leaves

4 -

5 spider +

11 -

14 roach +

26 -

30 -

31 katydid +

33 spiders +

34 +

35 -

38 5, 9 mm roach ++

39 katydid +

40 beetle +

41 roach dropped out

43 5, 10 mm roach

50 roach + katydid +

51 5 mm spider

53 -

57 spider +

58 roach dropped out

59 roach +

60 spider +

61 spider +

62 dragonfly on outside nothing inside

63 spider 6-8 mm roach

64 spider 5 mm roach

65 roach + dropped out & I put it back in



15 Aug Dead Leaves

66 Catydid +  
67 -  
68 -

# 16 Aug Dead Leaves

1 SM1 L -

2 SM1.1 L leaf down (branch fall)

3 SM1.3 L -

4 1.6 L 6mm beetle

5 SM1.8 L -

6

7 SM2

8 2.7 9mm roach

9 3.7 -

10 3.9 -

11 4 -

12 4.7 8mm cricket 3mm roach

13 4.9 R -

14 5.1 L 8mm roach

15 5.1 R 7mm spider black & pink

16 W5.1

17 W5.1

18

19 W5.1 -

20 W6 -

21 6.2 -

22 TL50.1

23 ↓ -

24 0.3 R 5mm spider dropped out, leaf fell

25 +2mL 12mm cricket

26 0.5 -



# 16 Aug Dead Leaves

- 27  
28 roach left leaf 9+mm TCS 3.5<sup>R</sup>  
29 B0.5R —  
30 B0.5L —  
31 0.2 katydid +  
32 AVA0.4 6mm cricket  
33 0.6 spider w/ eggs +  
34 0.8 leaf gone  
35 1.4 —  
36 1.9 —  
37 2.5 7mm black+yellow weevil  
38 5L 5, 9 mm roach ++  
39 2.0 katydid +  
40 0.05 up larvae 8mm spider black beetle  
41 0.3 —  
42 0.8 —  
43 0.9 5mm roach  
44 W12.4 roach + katydid +  
45 12.4 cricket +  
46 12.6 10(14) mm roach 5mm<sup>x</sup> left leaf? gray spider orange legs  
47 12.8 —  
48 12.95 —  
49 13.05 3mm roach  
50 13.2 —  
51 13.75 —  
52 13.6 2.5 cm christmas katydid dropped out of, put it back in  
53 13.8 10 mm roach +

# 16 Aug Dead Leaves

- 60 w14.05 3, 3 mm roach
- 61 w14.3 Lycosid +
- 62 B/B ~~roach~~ 10 mm homoptera
- 63 ~~lycosid~~ spider + 3, 6mm roaches
- 64 4mm roach 8mm cricket
- 65 -
- 66 Christmas Katydid +
- 67 lycosid 15 mm
- 68



16 Aug

SPA ♀ O/B R

SPA ♂ R/R Ⓢ

WmW 13.2

(H)

32-23

Buff-throated Woodcreeper UM

SPA ♀ UM

SPA ♂ marked

WBW UM

WBW LG/O R

? WBW W/W ??

~~17~~  
18

11-11-11

11-11-11

11-11-11

11-11-11

11-11-11

11-11-11

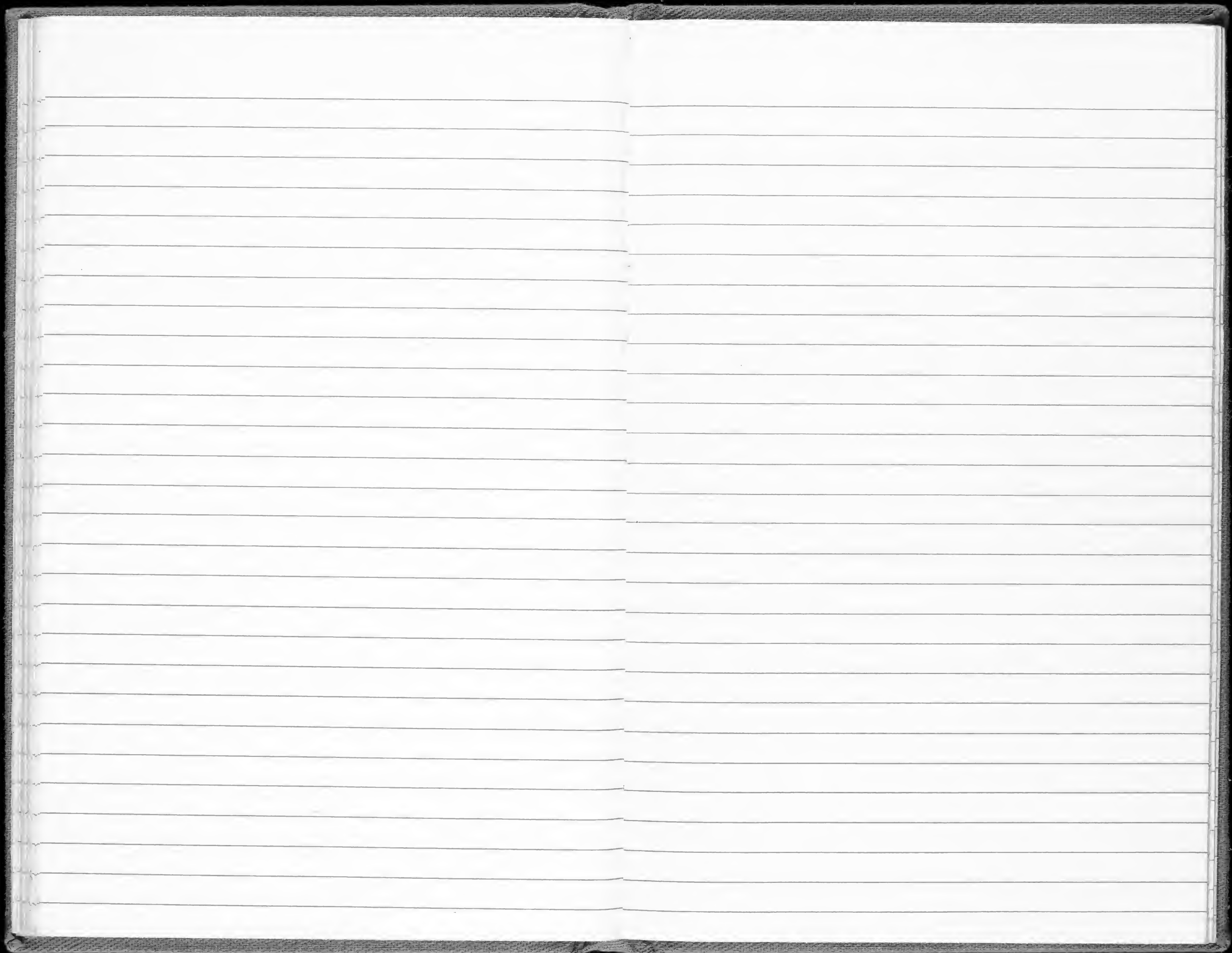
11-11-11

11-11-11

11-11-11

11-11-11





18 Aug

SA ♂ um brown on primaries  
41-23 3m (L) of WMW

AVA Red flank  
2.3 CTA DWA SA

AVA 0.9 (L) 2 WBW both um



# 1983 Net Locations

- 1 WMW - AVA shortcut // to WMW
- 2 WMW - AVA shortcut // to shortcut
- 3 WMW AVA shortcut  $\perp$  to shortcut 20m from WMW
- 4 WMW 13.8 (L) 20m
- 5 WMW 13.2 (R)
- 6 WMW 13.2 on trail
- 7 WMW 13.1 (L) 20m
- 8 WMW 12.3 (L) 5m //
- 9 ~~WMW~~ 12.3 (L) ~~10m~~  $\perp$
- 10 AVA 0.5 on trail
- 11 AVA 1.0 (L)
- 12 AVA 0.7 (L)
- 13 AVA 0.4 (L)
- 14 FD ~~0.8~~ 0.8 (L)
- 15 FD 0.8 (R)
- 16 FD 0.5 (R)  $\perp$
- 17 FD 0.55 (R) //
- 18 FD 0.3 (L)
- 19 FD 0.2 (R)
- 20 WMW 15.6 (R) //
- 21 WMW 15.6 (R)  $\perp$
- 22 WMW 15.5 (L) //
- 23 WMW 15.5 (L)  $\perp$
- 24 AVA 4.5 (L) (H) 33-15
- 25 AVA 4.5 (R) 33-16
- 26 AVA 4.4 (R) 34-18
- 27 AVA 4.3 (L) 33-18

Unmarked fish

# 1983 Net Locations

28	AVA	3.7	Ⓟ	11	31-21
29	AVA	3.8	Ⓟ	1	34-21
30		3.5	Ⓟ		
31	AVA	3.3	Ⓟ		35-23
32	AVA	3.3	Ⓟ		36-23.5
33	JE	1.0	Ⓟ		
34	JE	0.7	Ⓟ		24-30.5
35	JE	0.5	Ⓟ		
36		20.2	Ⓟ		
37		2.0	Ⓟ		



# Dead Leaves 18 Aug

- 101 AVA 2.8 (R) Lycosid w/eggs
- 102 AVA 2.82 (P) Lycosid 12mm beetle 6mm
- 103 AVA 2.94 (R) 8mm long legged spider
- 104 3.1 (R) H trail Lycosid w/eggs
- 105 3.1 (L) 3cm katydid
- 106 WMW 14.5 (R) 8mm cricket
- 107 WMW 14.5 (L) 15mm Lycosid 3mm roach
- 108 WMW 14.6 (L) 5mm pink funnel web spider
- 109 WMW 15.3 (L) 10mm cricket
- 110 WMW 15.3 (R) 10(14) mm roach
- 111 WMW 15.4 (L) 5mm pink funnel web spider
- 112 WMW 15.5 (L) 8mm roach
- 113 WMW 15.5 (P) 18+mm crab spider 8mm roach
- 114 WMW 40-24 (H) (R) inside leaf 20-25 mm katydid nymph
- 115 WMW (R) (H) 40-24 outside leaf 20-25 mm katydid nymph
- 116 FD 0.1 (R) 4cm Blue nose katydid
- 117 FD 0.2 (L) spider nest 6mm roach
- 118 FD 0.22 (L) 8mm roach
- 119 FD 0.25 (P) 10mm cricket (1 curl seen to green leaf)
- 120 FD 0.22 (P) 10mm cricket
- 121 FD 0.3 (R) 8mm roach
- 122 FD 0.4 (L) 15mm cricket
- 123 FD 0.38 (L) 10mm roach nymph
- 124 FD 0.5 (L) 4cm green eye katydid branch on 3rd leaf
- 125 FD 0.52 (P) 9mm roach nymph



# Dead Leaves

18 Aug

- 126 FD 0.53 (L) 10mm cricket
- 127 FD 0.6 (L) 8mm cricket
- 128 FD 0.7 (R) 10mm roach nymph
- 129 FD 1.0 (R) 4cm green katydid
- 130 FD 1.02 (R) 5, 8mm roach
- 131 FD 1.02 (R) 15mm katydid nymph <sup>dropped out</sup> + 12mm cricket
- 132 FD 1.03 (R) 5, 8, 8, 8, 15 (69?) mm roaches
- 133 FD 1.05 (R) 10mm roach nymph
- 134 FD 1.15 (R) 12mm spider + eggs sewn in
- 135 FD 1.14 (L) 5mm long legged spider
- 136 WMW 16.1 (R) 9, 10(14) mm roach
- 137 WMW 16.3 (R) 10(14)mm flymimic roach
- 138 WMW 16.3 (R) 15mm roach nymph
- 139 WMW 16.4 (L) 10(14) mm roach
- 140 WMW 16.45 (L) 6mm roach
- 141 WMW 16.45 (R) 12-15 mm cricket
- 142 WMW 16.5 (L) 15(20)mm roach
- 143 Pearson 0.1 (L) 30mm green eye katydid
- 144 P 0.5 (L) 12mm black spider
- 145 P 0.51 (L) 15mm cricket
- 146 P 0.7-8 (R) 10(14) mm roach
- 147 JZ 0.2 (L) 20mm cricket
- 148 JZ 0.4 (L) 9mm roach nymph
- 149 JZ 0.44 (L) 10mm roach nymph
- 150 JZ 0.6 (R) 9mm funnel pink spider



Dead Leaves  
Cleared 20 Aug

- 151 JZ 0.7 (L)  
 152 JZ 0.72 (L)  
 153 JZ 0.76 (P)  
 154 JZ 0.90 (P)  
 155 JZ 0.91 (P) 0.90 (L)  
 156 JZ 0.91 (P)  
 157 JZ 1.06 (L)  
 158 JZ 1.06 (L)  
 159 JZ 1.07 (L)  
 160 JZ 1.07 (P)  
 161 JZ 2.0 (L)  
 162 JZ 2.02 (L)  
 163 JZ 2.3 (P)  
 164 JZ 2.35 (L)  
 165 JZ 2.4 (L)  
 167<sup>164</sup> JZ 2.5 (L)  
 168 JZ 2.6 (P)  
 169 JZ 2.65 (P)  
 170 JZ 2.7 (L)  
 171 JZ 2.75 (P) 20, 20 mm crickets  
 172 JZ 2.77 (P)  
 173 JZ 2.8 (P)  
 174 JZ 2.81 (L)  
 175 JZ 2.9 (L)  
 176 JZ 3.05 (L)

22 Aug

Lead leaves cleared 22  
tag

- 77 JE 3.0 (L) 3mm track  
178 JE 3.4 (L) 3mm track  
179 JE 3.4 (L)  
180 JE 3.4 (L)  
181 JE 3.4 (R)  
182 ~~JE 3.4 (R)~~ AVA S.C. - 4m !  
183 (JE) AVA S.C. - 4m (P)  
184 (JE) AVA S.C. - 4m (L) 4.5 cm green katydid given to Tache  
185 (JE) AVA S.C. - 2m (L)  
186 (JE) AVA S.C. + 5m (L)  
187 (JE) AVA S.C. + 5m (L)  
188 (JE) AVA S.C. + 10m (L) 20 mm cricket  
189 (JE) AVA S.C. + 15m (L)  
190 (JE) ~~19-20 (Hubbel)~~ AVA S.C. + 15m  
191 JE (P) 19-20 (Hubbel) (L)  
192 3.38 (P)  
193 3.4 (P)  
194 3.4 (L)  
195 JE 3.7 R  
196 JE 3.2 (L)  
197 JE 3.72 (P)  
198 JE 3.73 (P)  
199 JE 3.75 (P)  
200 JE 3.8 (R)

Conocephalus brevirostris  
30 cm dunnos katydid



Dead Leaf Cheek  
23 Aug

- 1 —
- ~~2~~
- 3 Leaf down
- 4 5mm spider 15mm cricket
- 5 1mm cricket
- 7
- 8 —
- 9 5mm roach
- 10 2mm hemiptera
- 11 —
- 12 3mm roach
- 13 —
- 14 —
- 15 5mm spider
- 16 —
- 17
- 18 —
- 19 —
- 20 —
- 21 —
- 22 10(14) mm roach
- 23 leaf down
- 24 leaf down
- 25 10mm cricket
- 26
- 27 15mm cricket



# Dead Leaf Check 23 Aug

- |                                       |                     |
|---------------------------------------|---------------------|
| 28 leaf down                          | 60 5mm spider       |
| 29 leaf down                          | 61 leaf down        |
| 30 —                                  | 62 leaf down        |
| 31 leaf down                          | 63 4, 4, 5mm weevil |
| 32 4mm roach 12mm spider              | 64 5mm spider       |
| 33 spider w/ eggs                     | 65 9, 10mm roach    |
| <del>34</del>                         | 66 —                |
| 35 5mm spider + 3 eggs                | 67 —                |
| 36 2mm ant mimic spider               | 68 —                |
| 37 3mm roach 10mm spider              |                     |
| 38 5, 9mm roach                       |                     |
| 39 katydid — 3.5mm +                  |                     |
| 40 black beetle + Lepidoptera 15-23mm |                     |
| 41 10-12mm cricket                    |                     |
| 42                                    |                     |
| 43 2mm cricket                        |                     |
| 50 —                                  |                     |
| 51 —                                  |                     |
| 52 2, 3, 3, 8mm roach                 |                     |
| 53 leaf down                          | ↓                   |
| 54 leaf down                          |                     |
| 55 —                                  |                     |
| 56 —                                  |                     |
| 57 —                                  |                     |
| 58 leaf down                          |                     |
| 59 leaf down                          |                     |

## Spider Experiments

3 Aug. I put 54 *Lycosids* in baggie cages and two in wire cages (9:00 AM)

5 Aug 7:30 AM introduced snakes

5 Aug

Roaches

1. 9mm non-Lycosid	FDO.2	—
2. 18mm Lycosid	AVA 0.8	—
3. 10mm Lycosid	AVA 0.8	3, 6, 9
4. 15mm Lycosid	AVA 0.8	3, 6, 10
5. 13mm Lycosid	FD 0.2	4, 4, 6, 8
6. 10mm Lycosid	FD 0.2	4, 6, 8

Spiders put in cages 3 Aug 9:00 pm

Roaches added 7:30 am 5 Aug

Spider 5 immediately ate 8mm roach

Spider 3 only spider on leaf

9:00 am 1 —

2 —

3 all on leaf except 3mm roach

4 only 6-roach on leaf

5 none on leaf

6 no roaches visible spider in corner



23 Aug

CTA pair in line angle

TE 0.2(P)

90m

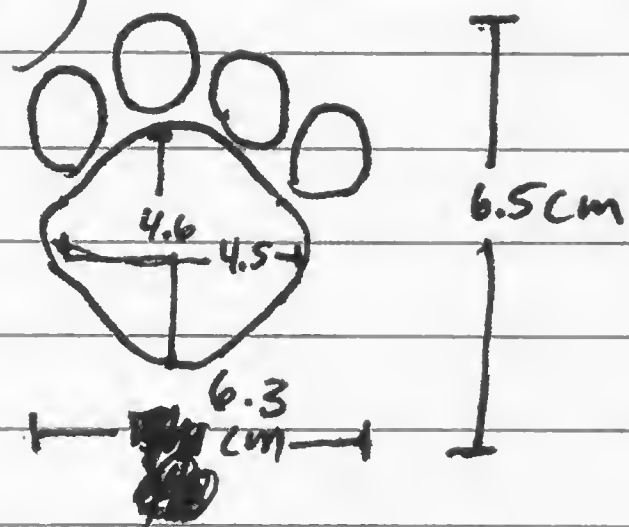
8?

## Ocelot Signaling

6:58 AM

Shreerla 3.6

Ocelot was walking rapidly down the trail toward me (toward lab clearing) its head was about 67 cm high (measured later on vegetation). Footprints in the mud were going both directions. It came



within 5 m of me, noticed me and left the

trail to its left.

# Dead leaves 29 Aug

1	1	-
2	✓	
3	✓	
4	2	8mm long legged spider
5	3	
6	x	
7	x	
8	3	-
9	3	4, 6 mm roach
10	3	3, 5 mm roach 4mm spider
11	2	4mm roach
12	✓	
13	<del>R</del> 1	-
14	2	-
15	3	10mm cricket
16	3	-
17	✓	
18	2	4mm cricket
19	1	-
20	1	5mm roach
21	x	
22	✓	
23	x	
24	x	
25	x	
26	1	9mm cricket
27		contents
	Curl	



## Dead Leaves

29 Aug

28

29

30

31

X

32

3

5, 6 mm roach 6 mm spider

33

2

long legged spider + 50 babies

34

35

1

spider eggs ??

36

2

4 mm spider

37

3

1, 3 mm roach

38

3

2 mm roach

39

3

Christmas katydid

40

X

41

3

10(14), 10(14), 10(14) mm roach

42

X

43

3

44

2

9 mm roach

45

2

10 mm cricket

46

3

katydid 30 mm long

47

X

48

X

49

3

7, 10 mm roach

50

1

8 5 mm spider

51

X

52

X

53

2

6 mm roach

54

X

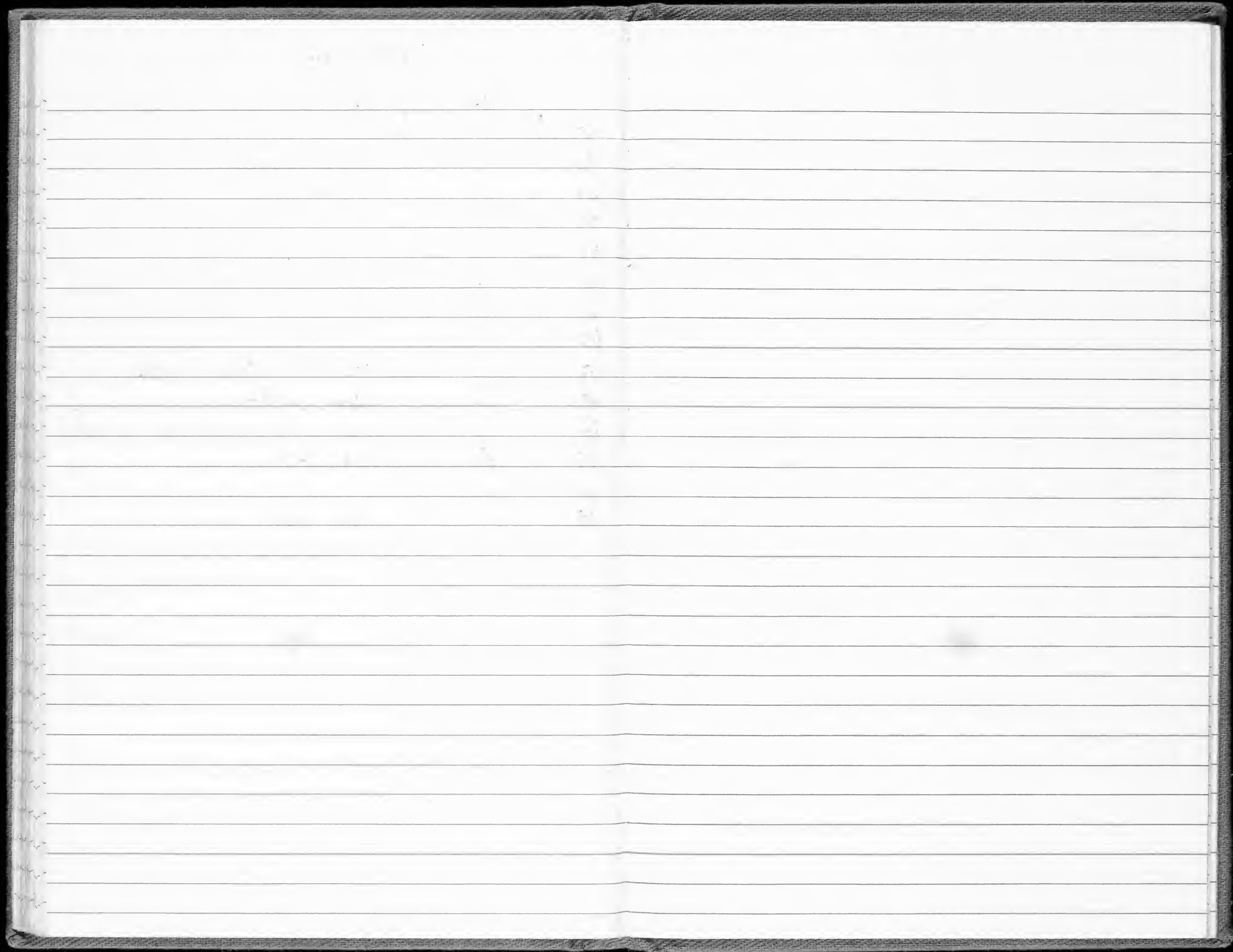
Curl

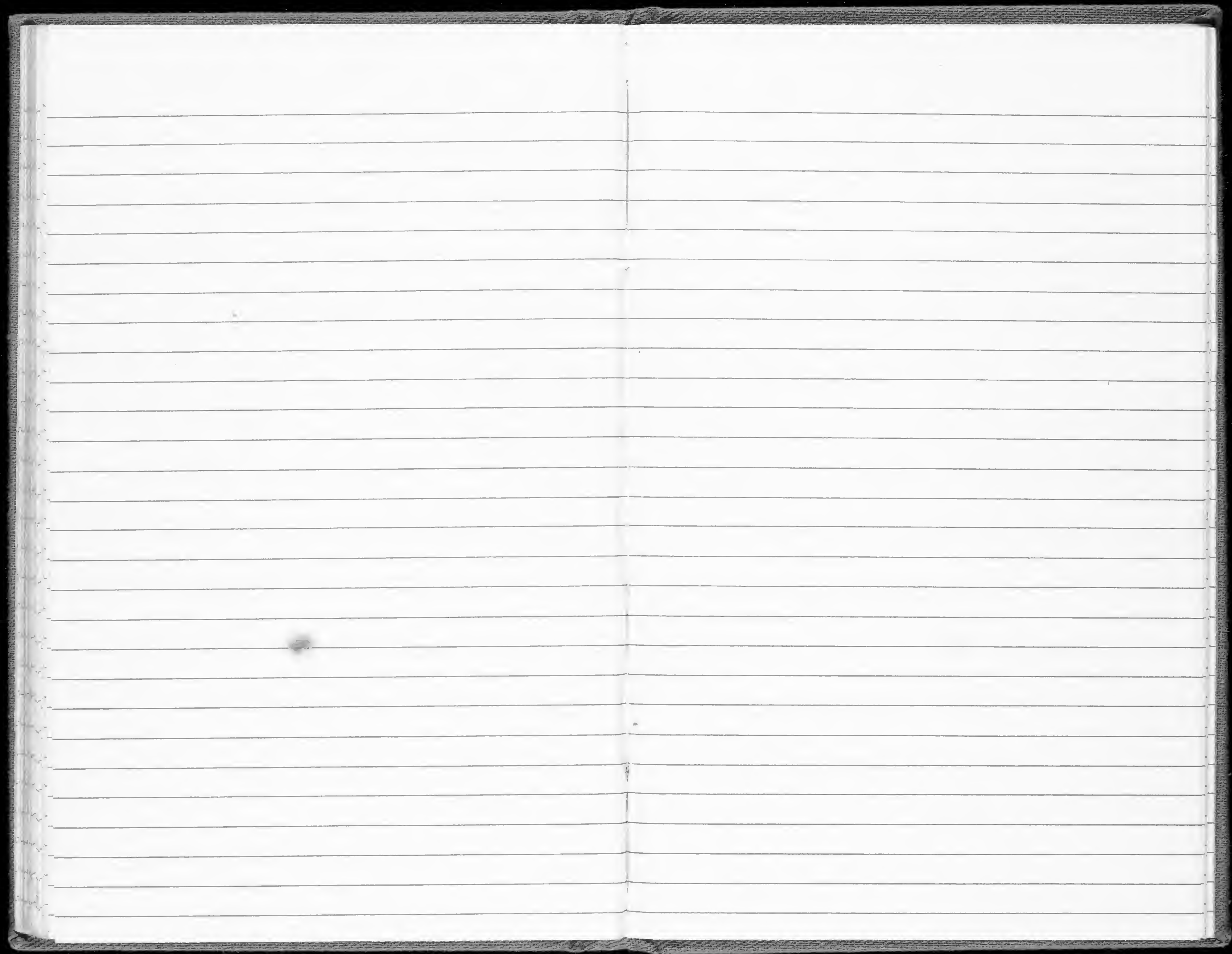
Contacts

Dead Leaves 29 Aug

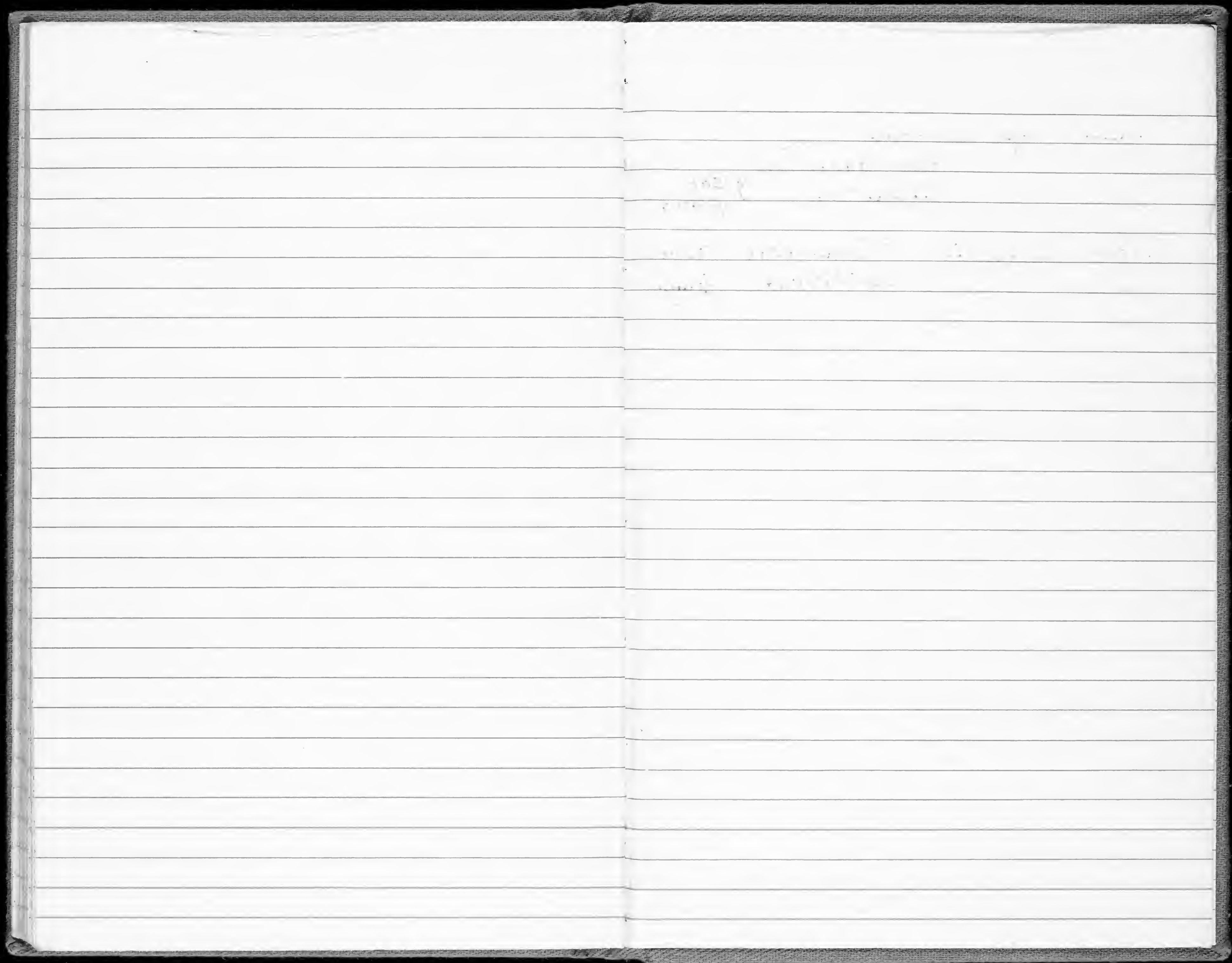
	Curl	Contents
55	1	-
56	2	4mm spider
57	1	-
58	X	-
59	X	-
60	3	-
61	2	-
62	X	-
63	1	5mm moth 5mm spider
64	2	5mm spider
65	3	5mm chrysomelid 10/11 <sup>mm</sup> <del>larva</del>
66	3	8mm roach
67	2	-
68	1	3mm spider







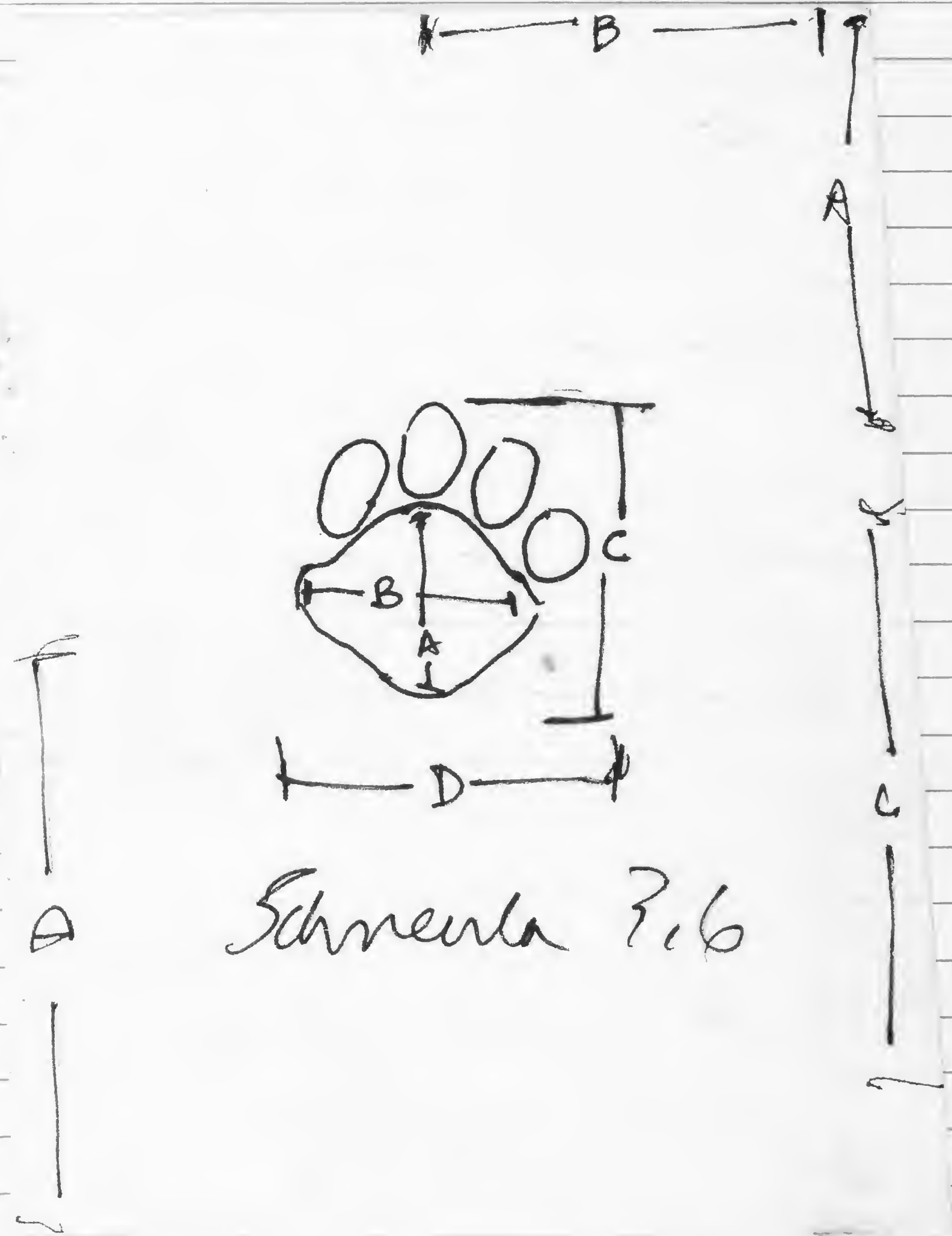




funnel type cocoons -

Anypphaenidae }  
Cheimidae } sac  
                  } spiders

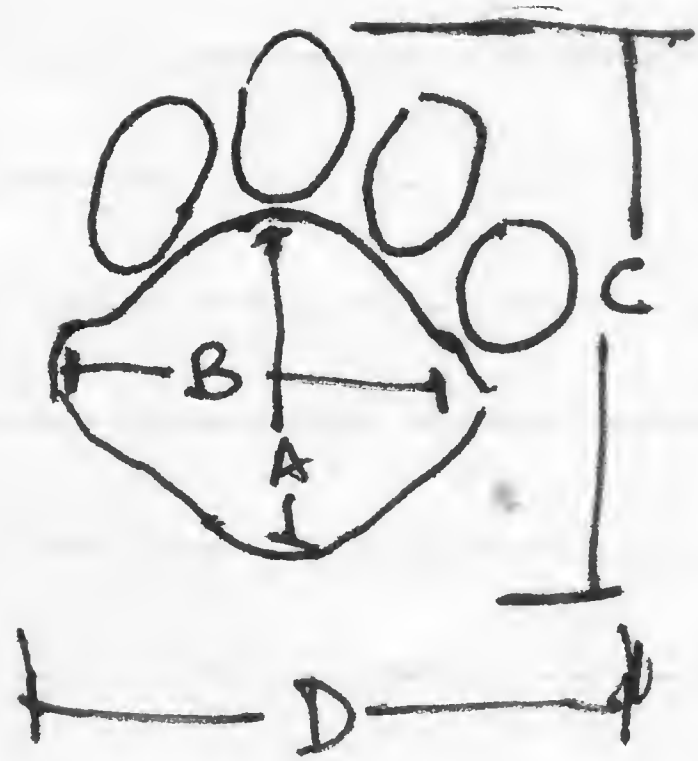
Sacs - (sewn in) Thomisids - crabs  
Salticidae - jump.





K — B — I

A  
B  
C  
D



Schneide 7.6

A

funnel type cocoons -

Anyphaenidae } sac  
Cheimidae } spiders

Sacs - (sewn in) Thomisids - crabs  
Salticidae - jump.



fun





